Brewer
1

Brew

San Luis Obispo Nov 25 - 50

1 Scrophularia

[illegible]

2 Zauschneria

[illegible]

3 [illegible]

[illegible]

[illegible] Nov 25 [illegible] 6

5

[illegible] large [illegible] [illegible] close by the sea [illegible]

6

Small tree among rocks

7

7 Herb in thick tufts on the steep, sunny ~~[illegible]~~ cliffs, in dry soil - not in flower - dry leaves abundant, but fall very easily

8. Miscla?

Grass creeping, first beneath the sand, in the beach, the [illegible] beneath the surface - the specimen for which these obtained 30 feet long, and many seen 15 feet

San Luis Obispo Nov 25-60 6

9

growing on tufts by spring among rocks, at [illegible] by the beach

10

abundant on the sandy beach but not in flower

11

composite - yellow - dry hill sides - down valley near stream - abundant

12

probably a var. of [illegible] with broader leaves growing on the sand of the shore

13

lichen abundant on trees, especially oak trailing from the branches

San Luis Obispo - Nov 25 - 6 a 8

14

on dry hills - underwhite
rays spreading, 3 together,
big & yellow.

15 Artemisia
Abundant on dry
rocky hills - shrubby - 4.5 ft
high - gray in dry & [illegible]
Monopolizing all the soil

16 Aspidium [illegible]
([illegible]) [illegible]
on [illegible] hills

17 [illegible] ([illegible])
Very abundant shrub on
dry hills.
[illegible] in tufts & heads in a
tubular (?) [illegible] colyx
[illegible]
[illegible] pedicel -
deeply [illegible] - [illegible]
[illegible]

outside, [illegible] - pet
white, [illegible]
deep green above, [illegible]
and [illegible]
[illegible]

18

[illegible]
[illegible]

19 [illegible]
[illegible]
[illegible]
[illegible]

20

Underbrush on ~~fla~~ sandy plain E. of town - plant in full bloom but nearly leafless, & visit a few of the bare ones remaining -

21

In hedge rows 2-5 ft high - fls blue-purple - habit like a Melilotus

22

Sandy flat near town. Burrs easily fall off

23

Shrubby - in dense clusters near stream

24

Comp. near stream - but not on ~~the~~ banks - 2, nineties 3 ft

Los Angeles Dec. 1-5 1800

25 Polypogon Monspeliensis
Ditch

26 Rumex
Ditch

27 Lepidium menziesii
by ditch

28 Euphorbia
Shrubby - often assurgent - in sandy soil by road side - hairs beautifully stellar - juice not very marked

29
Scirpus? - spikes flat - in ditch

30 Lemna
In pools. fronds very like L. minor - with red & brown spots -

Los Angeles, Dec 1-5-1860

31 Verbena

On sandy soil - spreading, much branch - 2 ft. obtusely 4-angled - lvs deeply doubly serrate often almost pinnate - fls terminal

32 [illegible]

Plant 3 to 5 ft high with external habit of [illegible] - very fragrant, with odour much like C. [illegible].

33 [illegible]

Very like S Nigrum, and is in all probability that species. Very abundant here. Stems often 6-8 ft high and shrubby at base at others entirely herbaceous - Flowers white, berries black.

34 [illegible]

Probably [illegible] - very abundant about here in the hedges - Stems often 30' or more long - [illegible] in fruit but green

35 Lycoperdon

An irregular [illegible] Dec 1st
Stems fore rail, lying on the ground, never rooted, leaves white [illegible] the [illegible] of the length of the [illegible] stem, [illegible], [illegible] from [illegible] rumors on, all coming upwards - [illegible] [illegible] white, [illegible] ; Circular in outline ; price very abundant on [illegible].

36

[illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] and dead, but [illegible] [illegible] [illegible]

Dec 5th

42 to 48 inclusive in Cañon & on [illegible]
[illegible]ission San Gabriel

Lindy [illegible]

39. Shrub, 3' to 4' high on side of dry hill; [illegible] like a dry "sweet fern".

40 Like a [illegible] sage; 3' high or more. flowers on stalks above the leaves, now Entirely dead

41 [illegible]
On dry ground near town; very abundant but now past time: most of it dead.

42 In Canon [illegible]

43 Like a Pteris on hill side in very dry soil

44 [illegible]

Bay tree. aroma of Bay [illegible]; a tree 32' to 40' high in cañon

45

Abundant on dry hill side, much branched leaves fasciculed; cor somewhat irregular; stam 8.

46 Qu[illegible]

Shrubby Oak 6' to 8' high, generally less, 3' to 4' on hill side

47 [illegible]

On dry side of mountain.

48

Fern, on dry hill side.

(Nos 49 to 70 inclusive on Mts of Sierra Monica, about 3-4 miles W.N.W. of Los Angeles. Camp 2)

Dec. 14 - 19.

49 [illegible]

50 [illegible]

51 [illegible]

Fruit called [illegible]

52 [illegible]

Comb [illegible] although many flowers [illegible] foliage the stalks naked of foliage, but much branched; 4' to 6' high

53 [illegible]

Abundant everywhere; this [illegible] the [illegible] of the [illegible] that in the valleys [illegible] in flower.

54 Euphorbia

On dry hill sides, common in its locality

55

Pteris ?) on dry mountain sides, abundant on dry rocks etc - common everywhere on the dry hill sides.

56 Ceanothus

Called Red wood; flowers lilac; shrub 12' high very durable when cut and the bark pulled off, then red [illegible] the name; this the second crop of flowers

57

Fruit of a shrub 8' to 10' high; berries clear [illegible] color in cañon [illegible] base.

58 [illegible]

[illegible] the only one [illegible], vine 4' to 6' only one flower, that purple & precisely like the common potato

6

6

6

[illegible]

59

Shrubby, composite rays yellow, narrow

60 [illegible] medium

[illegible]; leaves dry, grows to the top of the highest point visited

61 [illegible]

Nuts of a shrubby Juglans; grows in clumps of bushes with habit of Sumac

62 [illegible]

Shrub 15'-20' high - in cañon

63 [illegible]

In cañon, rocky soil

64 Stem

In damp cañon, by run, a [illegible] about 3' high; the lower nearly [illegible], not but smooth below; broad in general

outline; triangular, or rhomboid
3 primate below; simply primate above;
the lower primas on each branch [illegible]
[illegible], [illegible]; veins forker
each vein [illegible] once forked; [illegible] on
dense; the [illegible] branches on the [illegible] spar=
=ingly [illegible]; branches and veins slightly
hairy

65 [illegible]
Tree 40' high, by camp 2; habit much of butter=
=nut; nut broadly obvate, with a spot
around the [illegible] flower; much smoother
than J. cinera or nigra. Bark strongly
scented; buds not covered with resinous
scales; leaflets about 6-8 pairs, oftenest 7;
serrulate, very often not entirely opposite
(Nuts in [illegible] paper, leaves in [illegible])

66 [illegible]
Nuts from [illegible] in Canon

[illegible]

67 [illegible]

On [illegible] stem [illegible] much branched; flowers, sep obvate, greener than the narrower petals, both thickly veined; [illegible] pink and ovaries generally same color. Stamens 9. Pis 3; shrub spreading. Stig transparent balls.

68 [illegible]

Abundant on bushes in cañons; Cor 5 parted; the [illegible] spreading [illegible], tubular; anthers exserted; flowers very nearly sessil, ped very short.

Cor and Cal 5 cleft; stems 2; Stig globular.

69 [illegible]

In cañon shrub 6' to 8' high - flowers numerous - Rose color or red pink.

70 [illegible]

On hill at Station No 2 - probably same as No 4 6. Shrub about 4' to 5' high, growing in thick clumps or patches - Aserns mostly gone here a few left yet. Fruit and foliage.

(7, [illegible] camp 3, near the sea)

Dec 21st

(5 to 8 by sea = Dec 21st)

[illegible]

71

Smelly conjugate, common [illegible] on the [illegible] but more so in the cañons — generally entirely out of flower.

72 [illegible]

In cañons but just coming into flower.

74

Fruit of 56, fruit and flower on same tree; grows to a tree in cañon 25' 30' high & 2' or 3' 6" in circumference.

75 [illegible]

Smelly, [illegible] more [illegible] in [illegible] [illegible] [illegible] [illegible].

76 [illegible]

In cañon by the sea.

[illegible]

77 [illegible]
In ravine near sea

78 [illegible]
In cañon on [illegible] [illegible] sea

79 [illegible]
Shrubby 5' to 7' long - often trailing from [illegible] [illegible] the sea - no flowers
See book No 2 [illegible] 130

80 [illegible]
Shrubby - 5' - by the sea

81
Malvaceous shrub, 12' high, much branched - In cañon, not in case but at an altitude of 800' to 900'

82
Subalpine in [illegible] by rock in cañon at [illegible] 1500' to 1800' - not found below 1700' - In shady moist places in cañon.

Dec 23d

83

[illegible] canon at [illegible] 500 [illegible] [illegible] and

84

[illegible] canon - at 500' [illegible]

85

Fruit and [illegible] at a [illegible] canon [illegible] canon at [illegible] alt. [illegible] or 1200' not abundant - [illegible] [illegible] [illegible] Day

86

Common in [illegible] canyon [illegible] [illegible] [illegible]

89 w. 97 inclusive at Los Angeles

87 Stamens from another tree.

88 Foliage from a young shoot near a third tree of same species. Young branches of all rather brittle at the joints but not eminently so — but little foliage on the two now

89 D[illegible]
In vineyards and by road sides.

90 By road side as a weed

91 [illegible]
By side of brook

92 [illegible]
In vineyards and [illegible]

98 to 101 inclusive on Utts from [illegible]
[illegible] (Wilsons) - Dec 31st

[illegible]

94 [illegible]
In waste [illegible] [illegible] [illegible]
flower

95 [illegible]
Everywhere in waste places

96 [illegible]
In waste places

97 [illegible]
[illegible]

98 [illegible]
Leaves and acorns from [illegible] [illegible]
abundant on the height - acorns
all fallen from the tree - tree ever-
green - not large say 40' high or
more - many more shrubs.

99
Fern in [illegible] near summit - above 4000' [illegible]
abundant

January 1

January 2d

[illegible]

100.
Small alpine fern, in crevices of rocks at and near summit

101.
[illegible]

102.
A birch tree in rocky cañon [illegible] water - tree 40' high [illegible] leaves mostly [illegible]

103. [illegible]
In swamp

104.
Composite - very much branched leaves extensively [illegible], in swamp

[illegible]

1/ Gardi.

105. = Cladium mutans

Found in [illegible] "insects" in swamp — very coarse the stems as thick as the thumb and 6' to 8' high; leaves [illegible] often 6' or [illegible] long, dusky [illegible], sharp edges each [illegible] gly [illegible]. The grass [illegible] [illegible] [illegible]

107. [illegible]
[illegible] in [illegible] a [illegible] rapid growth along streams in dom fabric cotton, quite abundant. Bark smooth of a light ash gray color [illegible], brown. 3. Leaflets [illegible] Each with five [illegible] 4 pairs [illegible] [illegible] 1 [illegible]; [illegible] [illegible] [illegible]

January

109. [illegible]

Manzanetta. Bushes in cañon; st much branched; bark rich mahogany color, smooth & polished; leaves vertical entire; coriaceous; flowers white; corolla white, ovate, urn shaped with narrow mouth; limb short, 5 toothed, reflexed. Stamens 10, included, scarcely half the length of the tube - 2 reflexed awns on the anthers; fil short, the base much thickened and scarded, pos about the length of the cor, sed 3 or 4 lines long with scale at the base which is widened at the sides. [illegible] terminal. Leaves broadly ovate, some of them [illegible] [illegible] at base, vertical in the stalk, both sides alike - glabrous, generally entire, but sometimes sub-serrate

110. [illegible]

On the [illegible] [illegible] [illegible] and in the cañon, found [illegible] only [illegible]: Leaves six ranked, acute, thickened near the point, but with a

110.)
depression back of this making the
leaf at that point quite thin
Leaves six ranked, closely [illegible] in young
shoots of some plants (as 111) [illegible] and
over blue

111.
Young shoots from another bush than 112
[illegible]

112.
Curious, fungus? caused by the sting of
an insect - the gall very like a fruit with
3 calyx [illegible] at the base; a point at
the top as if a dead blossom had fallen,
and six [illegible] radiating from it; shape
ovate - the apple [illegible] or nearly
spherical

113.
[illegible] (racemosa) common
[illegible] on oaks [illegible] foliage often quite
yellowish especially when the limb
[illegible] is nearly dead

January 9th

[illegible]

113

Much branched [illegible] leaves [illegible]; leaves obovate, tapering into a short [illegible] 5 [illegible]; the spikes about half the length of the leaves; [illegible]; about 3-4 rings of flowers, each of 3-4 circles of [illegible] 4.
[illegible]; 3 scaled calyx; [illegible] white; [illegible] [illegible]; [illegible] ed.

114. [illegible]

Fruit and foliage. Large trees, called here the "[illegible] White Oak" and "[illegible] Oak". Trees sometimes [illegible] feet in diameter and many 2'6". Bark [illegible] like [illegible] of the Eastern states. Leaves of the trees entire, or at times with very faint denta=tions; on the end of the shoots of young trees sometimes [illegible], some of the acorns ripe, some quite green, the most of them fallen from the trees. Leaves corre=acorns.

115. [illegible]

Foliage of young tree from same grove = both from the grove near camp

116. [illegible]

Fruit and foliage - leaves mostly shed, some left on the ends of the shoots, common here in the canon, and by the water - young branches pubescent - trees with smooth white bark.

117.

Small fern from rocky ravine - not abundant

118.

Fern from ravine

119.

Dried leaves and

120.
Leaves of living Yucca
See [illegible] following 230

121.
[illegible] of Yucca [illegible]

122.
Manzanella from top of [illegible] - No flowers seen but habit very unlike 100 —
Young branches pubescent. (See P72)

123.
A shrub abundant over the [illegible] [illegible] found on fruit. In [illegible] on summit of ridge 1600 [illegible] camp the most of the fruit lost but some still remaining

124.
On north side of summit of [illegible] Trees 60'-80' high and from 1'9" to 2' in Diam [illegible]

January 9th

January 12th

125. [illegible]

Foliage of young shoots of same species as Nos 114, 115 - young thrifty shoots from a large stump - cut and spread again

126.

Same species as 110. [illegible] from shrub 8' to 16' high at mouth of cañon

127

Fungus? growth on the alive cedar caused by the sting of an insect. The suppressed branch grows into a shaw crown cone - very like some of the larches specimens of 112 found on same bush and very distinct from this

128.

[illegible] - this the common oak of the country - at [illegible] 10' to 12' in circ, but very crooked, branching but

(128)

a few feet from the ground; bark very thick - highly colored when exposed to the air after being cut.

In cañon, and on hills where there is water

129. [illegible] Longa form

More leaves on than I generally find with this species.

130.

Anamalous form of plant caused by sting of an insect - seen many times but not gathered before - always on the same species. This flower like small scarlet red.

131

Dempsile - common - 6° to 8° high, on sand at mouth of cañons, lower part shrubby - last year - growth herbaceous

32

[illegible] near [illegible] & also on delta at mouth of Cañon. Not seen here reaching the Sta. Cruz, but abundant there & [illegible]

[illegible]; large 6-8' high much branched coarse, juice [illegible], [illegible] hairy leaves ovate acuminate, sometimes nearly cordate, [illegible] thimbled, [illegible] [illegible] [illegible]

Sep 20

Sep 22

134

[illegible] found [illegible] on [illegible] Camp 8 [illegible] River) [illegible] the [illegible] growing from a [illegible] rhizoma [illegible] main year growth and [illegible] spring from [illegible] of leaves (?) laterally.

135

[illegible] Camp 9 [illegible] much of this year [illegible] date abundant in the [illegible] of the Temiscal tin range.

136

From ridge of [illegible] range [illegible] Altitude of 3000' to 5000' grows in very [illegible] soil. Trees [illegible] to 1'6" in Diam. Cones with a drop of turpentine on each scale

137. [illegible]

Grows in Chaparral [illegible] 3000' - Scrubs 12' to 18' high, [illegible] [illegible] branching [illegible] the smaller chaparral oaks - acorns not abundant - nearly immersed in the shell - leaves sometimes entire, sometimes toothed.

138. Dev Cavia

From cañon Agua Fria - near mouth - flowers white - leaves generally trifoliate, and leaves of various shapes all the shapes preserved common - often the under side purple - pet broadly rounding - claw 1/3 the length of the sepal; roots [illegible] with small tubers? rather than jointed root stalk.

139.

Fern from Cañon Agua Fria - abundant along streams in cañons; [illegible]

[illegible] 20[illegible]

(139)

often 5' long - 4' general length.
(The letters referred to [illegible] from the same plant)

140.

Little minute flower from dry plains and valleys among the dry granite hills of the north end of Temescal range - flowers purple -

141.

Minute white flower [illegible] top of Temescal range - S.E. of Camp 9 -

142. Do [illegible]
From slope of hills of Temescal range - opposite the Indian village S.E. of Camp 9 -

30th

122

Common in [illegible], along with the other species - [illegible] the [illegible] different

124

a. dried quickest

141

Few should seen on sand, in dry widened bed of stream near camp of Temescal -

143

Very minute plant of Sedum familis, growing on sand in bottom of Cañon near the mines now dry but where there was some water a short time ago grass dense almost cespitose, or rather, gregarious, forming brownish green patches - at about 1 line long, sometimes

(143) :

2, root about three times as long; St. generally simple sometimes branched at the top; leaves generally 6, sometimes 8 opposite - sessile, clasping the transparent stem at the base, very thick, lower ones elevate; upper [illegible] with often a white transparent accommodation point - as thick as wide: Sep 4, thick; pet 4 narrow rev: St 4 - hardly as long as the pet, first four, follicular, as long as the stem bright red dots.

144

Minute crucifer, on dry ground in cations in Temescal range - near the mines

145

On dry hills Temescal range

146. [illegible]

147 Same [illegible] localities

148. [illegible] Temescal Range

149. [illegible]

150. Vine like melon most abundant on hill sides [illegible] in other localities. Quite common.

[illegible]

151.

[illegible]
[illegible] very long [illegible]
[illegible] leaves rugose
[illegible]

152.

[illegible]
[illegible] on these [illegible]

153

[illegible] orange [illegible] plant
[illegible] solitary
only very few plants seen these yellow
orange

154

[illegible] near [illegible] large
young thrifty branches yellowish green
leaves mostly sheer

[illegible] trip over [illegible] hills - Centre of range S.E. from the [illegible].

155.

Dry sunny hillsides — See below +
See p. 82

156.

Dry hillsides — Sunny places — See next
page

157

Dry sunny hillsides

158

Dry sunny hills — See sides

159.

Dry hills common —

160.

It [illegible] [illegible]
[illegible] obovate sometimes [illegible]
[illegible] [illegible] [illegible] [illegible]
Entire with [illegible] [illegible] [illegible]
sometimes with [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] as long as
[illegible] [illegible] [illegible] scattered [illegible]
[illegible] Stem 8 - 4 shorter than [illegible]
four by 1/3 - anth opening inwards.
Pist [illegible] long as the [illegible] - Stig [illegible]
[illegible] [illegible] in a tube 3/4 or 1" long
[illegible] [illegible] [illegible] - Leaves succulent
purple beneath [illegible] [illegible] purple
[illegible], lanceolate, [illegible] [illegible]
or Entire; [illegible] [illegible] [illegible] [illegible]
white, scattered [illegible] - [illegible] [illegible]
[illegible]

[illegible]

[illegible] [illegible] [illegible]
Pet 5, broad obovate sometimes [illegible]
with [illegible] - deeper [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] spreading
Sep 2, Concave persistent as long [illegible]

156. Ale

the [illegible] 5 1/2 [illegible] 1 as long as the [illegible] Stipe 3 [illegible] stig hairy in the cleft. ovaries ovate, leaves numerous, entire, linear, or linear-oblanceolate apex obtuse, thick [illegible] [illegible] the entire plant often not 3/4" high and generally but 1"-1 1/2" - but sometimes 2"

157

[illegible] 1 [illegible] 5 round lobes, yellow glands at base, [illegible] [illegible] Sep. St. & leaves with [illegible] hairs - [illegible] (

158

Pet obovate - cancellate, purple - 3 darker [illegible] at base, claw bearded - Sep 5, hairy 3-5 nerved with strong green hairy [illegible] the central one ending in 1 or 2 transparent points; often [illegible] between the nerves with pale red - [illegible] [illegible] at base 10 [illegible] (not entirely certain)

Feby 3d Camp 12

~~[illegible]~~
San Francisco

1

Style 5 parted - [illegible] with 5 hairy ribs
[illegible] 5 to 7 or 8 clefts or [illegible] thin
2-3 [illegible] on dry [illegible] the flowers
[illegible] with [illegible]

61

Little purple flower from dry plain at
mouth of cañon. Not seen south of Chino
Ranch but common on sand delta at
mouth of cañon in dry sunny places.
Flowers [illegible] terminal 3/4" in diam
monophalus. limb deeply [illegible] spreading
[illegible] broadly obovate, the end
notched, pale [illegible], deeper on edge
with purple spot at base of lobe. Veneate
thin yellow with a second purple spot
or ring at the base of the tube.
Stam 5 about 2/5 the length of cor.
alternate with the segments. Pist 1 - Stg
3 cleft - Cal 5 cleft, the divisions linear
or acculeate, thick - ciliate - petioles
hairy - 3-4 lines long - lvs opposite, thick
[illegible] almost setaceous, glabrous
about 3 pair - 7 to 8 lines long. It sometimes

161.

Orangery [illegible] [illegible] [illegible]
[illegible] plant about 1" high –

90